Updates on the National Public Safety Broadband Network

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Public Safety Interoperable Communications Office

Outline

- National Public Safety Broadband Network (NPSBN) Status

  - Review current National Public Safety Broadband Network (NPSBN) guidance for the State and Local Implementation Grant program

- Arizona Public Safety Broadband Network (AZPSBN) Status

  - Review the Digital Arizona Program approach

  - Proposed Education and Outreach approach for AZPSBN

  - Additional AZPSBN status topics

  - Plan and timeline

NTIA/FirstNet plan

- FirstNet Board selected: Four Public Safety representatives appointed - the legislation required a minimum of three

- NTIA posted preliminary grant guidance with a hint at the allowable activities and required tasks (target - Q1 2012):
  - Establish or adjust governance structure
  - Develop procedures to assure local and tribal representation
  - Create education and outreach process and delivery
  - Identify potential public safety users
  - Develop standard MOUs/IGAs for possible shared infrastructure, rights-of-way and other legal/permitting issues
  - Develop staffing plans for planning, outreach and data collection

- Two Phases: 1) Prep work and outreach 2) Data collection once FirstNet develops a standardized approach for each State to follow

Connecting the Dots

- From a NPSBN perspective, neither the $134M for R&D nor the $7B for build out appear to be enough to cover our required level of analysis and coverage.

- Arizona has multiple upcoming initiatives which require a solid fiber backhaul network able to cover as much of Arizona as possible (Health, Education, Government and Public Safety)

- All require education and outreach programs

- Each discipline has a message to get across to Local jurisdictions

- Local jurisdictions would benefit when all interested parties hear the same message

Intermission

Mike Golden – The Digital Arizona Program

Digital Arizona Program

- AZ Broadband Backhaul approach
  - Two-highways bill - S.B. 1402
  - Digital Arizona has worked with AZ State Land to generate a [proposed statewide broadband conduit build out map](#).
  - Conduit Coverage: ~3000 miles of state and county roads, 40 mile swath, 98% of the population
  - Each segment has been identified and various population, anchor point, distance from tier 1 backhaul, critical infrastructure, metrics are being gathered for Return on Investment (ROI) valuation
  - The plan is to bury and lease conduit (providing reduced right of way, impact study & permit costs) and offer segments to private providers to build out in previously non-viable markets.
  - FirstNet could become one of those leasing conduit space
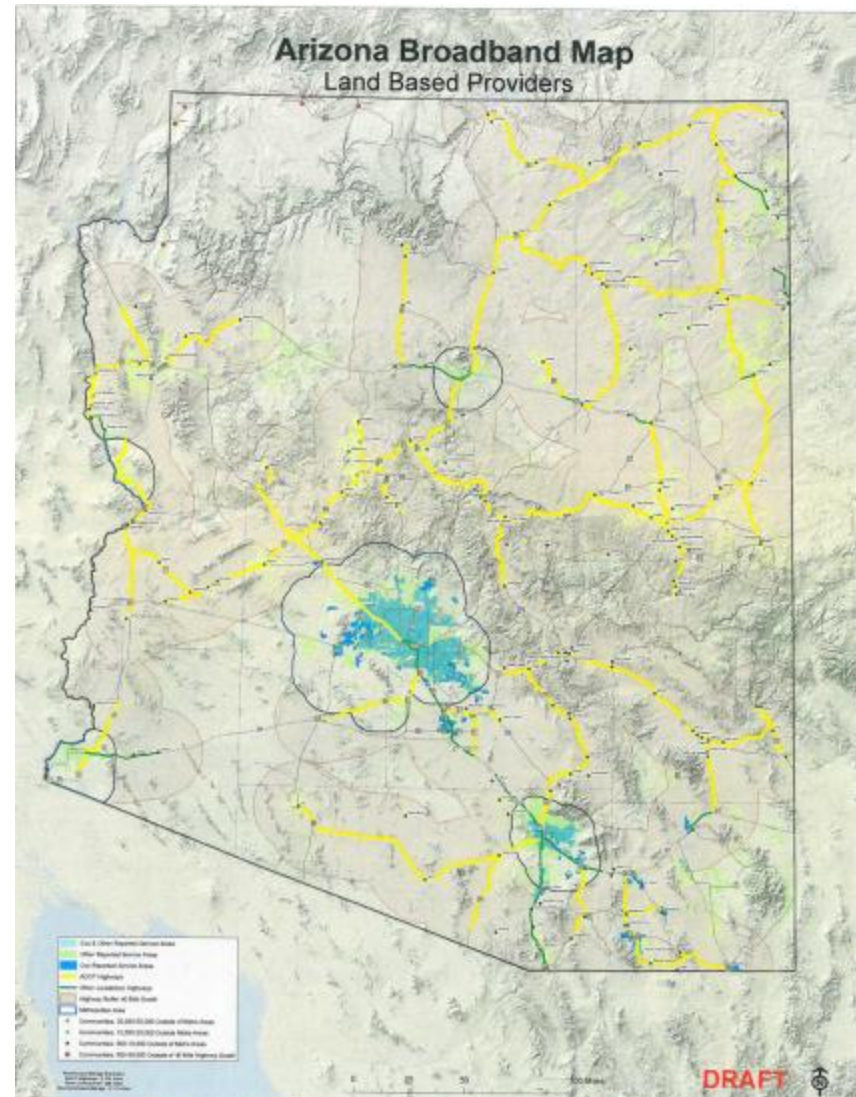
Planning for SLIGP

- Several of SLIGP grant guidance requirements depend on the development of a framework for gathering stakeholder input and data regarding the development of the AZPSBN:
  - Develop procedures to assure local and tribal representation
  - Create education and outreach process and delivery
  - Identify potential public safety users
  - Develop staffing plans for planning, outreach and data collection
- By using the Digital Arizona road segments as a framework for identifying the anchor institutions, jurisdictions, and potential stakeholders we can be assured a solid tracking mechanism
- For example, SR260 (SR89A to SR87) – 47 miles:
  - COG = NACOG, REC = Five, RAC = West, EMS = Northern
  - EM contact; SO contact; 9-1-1 contact; County contact; City contact;
  - Schools, Police Dept, Fire Dept, EMS services, etc.
- This joint approach will allow for contact management, information sharing, survey tracking and possible user tracking.

Digital Arizona Program

- Map available online.

Arizona Broadband Map
Land Based Providers

DRAFT

Digital Arizona Program

- Utilize the segments to drive the Education and Outreach
  - For each segment, identify the REC, RAC, EMS and COG and have 3-4 meetings as we progress – educating, gaining input, defining requirements and establishing priorities

- By Regional grouping:

County	AZEDU - Regional Education Centers	AZDOHS - Regional Advisory Councils	AZDHS - Bureau of EMS Regions	Arizona Councils of Government
Apache	One	North	Northern	NACOG
Cochise	Three	South	Southeast	SEAGO
Coconino	One	North	Northern	NACOG
Gila	Four	East	Central	CAAG
Graham	Four	East	Southeast	SEAGO
Greenlee	Four	East	Southeast	SEAGO
La Paz	Five	West	Western	WACOG
Maricopa	Two	Central	Central	MAG
Mohave	Five	West	Western	WACOG
Navajo	One	North	Northern	NACOG
Pima	Three	South	Southeast	PAG

Planning Approach

- Seek more information on projected costs and ways to overcome the projected shortfall

- Develop and administer surveys to assess local needs and possible shared assets

- In alignment with the "Two Highways" model of the Digital Arizona Project:
  - Identify each segment of the proposed fiber back haul
  - Identify the local stakeholders for Education, Health, Governmental and Public Safety along those routes

- Develop the metrics, cost-models and public/private partnership options for each segment

AZPSBN Activity

- National Public Safety Telecommunications Council (NPSTC) Public Safety Statement of Requirements (SoR) for the NPSBN – attended 3rd round working session Aug 6-10th

  - 3 rounds of edit sessions, 1000+ comments, 250 pages

  - Recently added a Public Safety review cycle - Approximately 12 weeks

  - OEC is also working on Operational Requirements

- Oct 3rd, PSIC staff to attend a NPSBN panel discussion aligned with the UTC region 10 technical conference Oct 4-5th

- Track NPSBN progress (on-going), in particular:
  - The Interoperability Board's minimum technical requirements
  - First Net's progress on RAN planning
  - Input/decisions from agencies such as the FCC, NTIA, DHS, OEC, etc.

- Work with the Digital Arizona project and 9-1-1 programs to assure integration and to identify synergies – on-going

- Work with the Arizona public safety community to advise the PSCC regarding statewide standards for interoperability on the NPSBN – in progress

- Develop and present education and outreach on AZPSBN for local jurisdictions – in progress

- Advise the PSIC Office in regard to a grant request under the State and Local Implementation Grant Program (SLIGP) – planned

- Work with the Arizona public safety community to plan how Arizona will interact with the NPSBN and FirstNet – planned

- Plan and prepare for the FirstNet RFP proposal by recommending minimum criteria based on Arizona's public safety needs – planned

- Perform the research and analysis required to provide substantive input on the Opt-In/Opt-Out decision – planned

- Continually Report on progress – on-going

High Level Timeline Review

- March 22, 2012 – FCC's interim Public Safety Interoperability Board formed - ✓

- April 17, 2012 – PSCC approved the AZPSBN Workgroup and project plan - ✓

- May 22, 2012 – FCC's Interoperability Board published their requirements - ✓

- August 20, 2012 – NTIA to announce FirstNet Board members - ✓

- August 22, 2012 – NTIA to provide guidance for the SLIGP grant process - ✓

- Q1 2013 – NTIA to open SLIGP grant process

- Q2 2013 – Submit an Arizona SLIGP grant request to NTIA for the Arizona RAN

- Q3 2013 – Best guess estimate for SLIGP grant awards

- Q1 2014 – Review RAN analysis/costing results with the Governor's Office

- Q4 2014 – Issuance of RFP to Arizona from FirstNet

- Once the RFP is provided, perform a comparative analysis and review with the Governor's Office for the Opt-In/Opt Out decision (90-days after the receipt of the RFP)

Discussion; Questions?

Thank You!

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